MATERIAL SAFETY DATA SHEET FOR COATINGS, RESINS AND RELATED MATERIALS REPLACES NCPA 1-82

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MANUFACTURERS NAME CROWN METRO AEROSPACE COAS	rings,	INC.		EMER	GENCY TEL	EPHONE NO.
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DATE OF PREPARATION 4/89				(803) 277-1870		
SECTION I - PRODUCT IDENTIFICATION						
PRODUCT NUMBER: 24-F2-220 (Base	e) / E	C-101	(Curing So	olutio	n) Ratio	: 1:1 by vol.
PRODUCT NAME: Gloss Blue Enamel, BAC-5239						
PRODUCT CLASS: Polyurethane						
SECTION II - HAZARDOUS INGREDIENTS						
		OCCUPA	TIONAL EXI	POSURE	LIMITS	
Ingredient CAS #	Max. %Wt.					Vapor Pressure mm.Hg.@ 20°C
BASE:						
lyurethane Resin		NE		NE		NA
Tritanium Dioxide 13463-67-7			5*		15	NA
Phthalocyamine Blur 147-14-8 Toluene 108-88-1	5 5	100	5*	200	15*	NA 22
Xylene 1330-20-7	5	100		100		21
n-Butyl Acetate 123-86-4	10	150		150		10
2 Ethoxyethylacetate 111-15-9	15	5		100		2.0
Cyclohexanone 108-94-1	5	25		50		3.4
CURING SOLUTION:						
Homopolymer of HDI 28182-81-2 (Hexamethylene Diisocyanate)		NE		NE		NA
HDI Monomer Content 822-06-0	.2	.02 s	uggested			NA
(maximum) Toluene 108-88-3	25	100		200		22
Xvlene 1330-20-7	23 5	100		100		21
Xylene 1330-20-7 n-Butyl Acetate 123-86-4	5	150		150		10
NE = Not Established NA = No	ot App	licabl	e * = Re	espira	ble Dust	
SECTION III - PHYSICAL DATA						
iling Range: 230°F - 315°F Volatile Volume: 60% Wt/Gal. 8.6						
Evaporation Rate:Faster Than Ether XXX Slower Than Ether						n Ether
Vapor Density: XXX Heavier Than Air Lighter Than Air						

SECTION IV - FIRE AND EXPLOSION HAZARD DATA
FLAMMABILITY CLASSIFICATION: OSHA Class IB Flash Point 40°F TCC LEL 1
DOT Paint, Flammable Liquid, (UN1263)
EXTINGUISHING MEDIA: Use NFPA Class B extinguishers.
X Foam "Alcohol" X CO2 X Dry Chemicals X Water Fog Other Fog
UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. Self-contained breathing apparatus should be worn by firefighters. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIREFIGHTING PROCEDURES: Water spray may be ineffective. If water is used, fog nozzles are preferred. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.
SECTION V - HEALTH HAZARD DATA
EFFECTS OF OVEREXPOSURE: Can cause irritation to skin, eyes and respiratory tract. Symptoms may be watering of eyes, dryness of throat, coughing, headache, tightness in chest or burning sensation. Allergic reactions may occur in some individuals. Headache, dizziness or nausea may be experienced by some as a result of exposure to solvents.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Persons with asthmatic type conditions, chronic bronchitis or other chronic respiratory diseased or recurrent skin eczema or sensitization should be excluded from working with this product.
PRIMARY ROUTE(S) OF ENTRY: X Dermal X Inhalation Ingestion
EMERGENCY AND FIRST AID PROCEDURES: Eye contact: Flush with water for 15 minutes. Consult physician. Skin contact: Wash affected area with soap and water. Remove contaminated clothing. Consult physician. Inhalation: Remove to fresh air. Consult physician. Ingestion: Drink water to dilute. Do not induce vomiting. Consult physician.
SECTION VI - REACTIVITY DATA
STABILITY:UnstableX_Stable
HAZARDOUS POLYMERIZATION: May Occur X Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS: By Fire - CO, CO2, nitrogen oxides and traces of HCN and HDI.
CONDITIONS TO AVOID: Temperature above maximum storage temperature. Avoid exposure to heat, sparks, or open flames.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate non-essential personnel. Remove all sources of ignition (sparks, flames, hot surfaces). Ventilate the area. Equip clean up crew with self-contained breathing apparatus. Dike spill. Cover with sawdust, vermiculite or Fuller's earth. Collect material in open containers.

WASTE DISPOSAL METHOD: Conform to Federal, State and Local regulations. Empty containers must be handled carefully due to product residue and flammable solvent vapor.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: In outdoor or open areas use NIOSH approved mechanical filter respirator. In restricted ventilation areas, use NIOSH approved chemical/mechanical filters to remove vapors and particulates. In confined areas use NIOSH approved air line type respirators or hoods.

VENTILATION: Must be sufficient in volume and pattern to keep contaminant concentration below TLV (NIOSH) or PEL (OSHA).

PROTECTIVE GLOVES: Required, butyl rubber recommended.

EYE PROTECTION: Required. Use goggles, face shields or safety eyewear with ideshields.

OTHER PROTECTIVE EQUIPMENT: Protective creams where skin contact is likely.

HYGIENIC PRACTICES: Wash hands before eating or using bathroom. Remove and wash contaminated clothing before reuse. Wear chemical resistant boots.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store above 100°F. Store in large quantities only in buildings designed to comply with OSHA 1910.106. Keep containers closed and upright to prevent leakage. Do not store or use near heat, sparks, or flames.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with vapor or spray mist during application or curing.